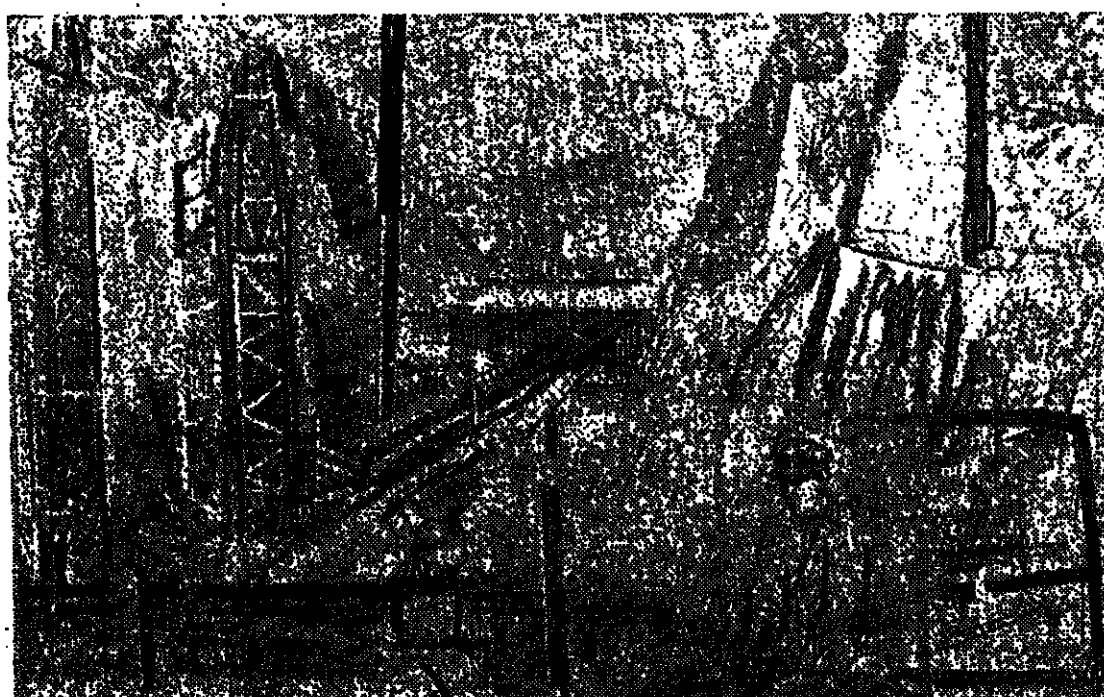


Romania is today an immense building site, seeing the release of huge energies which have revealed the constructive vocation of the Romanian people, its creative capacity. This vocation is materialized in foundations meant to last years and years, expressions of the close-knit forces of the whole nation under the banner of the same ideal. The people's work, the capitalization of its creative potential have brought about big changes in the country's landscape, the erection of buildings which have modified the geography of the country in the name of her flourishing future. These changes and processes have shaped up new people and personalities, talents have asserted themselves, the scientific, technical and artistic creative genius of the Romanian nation. These realities have been rich sources of inspiration for the artists, an enormous treasure of thought and deed on which the outstanding works have fed. Works aspiring after synthesis-

ing in memorable artistic images the life and work of the Romanian people. The achievements of these years, are for the Romanian painters, sculptors and graphic artists a way of continuously discovering a clear thinking and an effervescent sensitivity. The faces of those who have contributed to achieving these objectives, as well as their significant appearances become virtual generic portraits, real emotional documents of Romanian contemporary history.

PAUL ANTIM ■

Our photos represent: "Oltenta Shipyard" by Vladimir Seiran (top, left), "The Bridge at Vadul Oit" by Al. Ciururenu (top, right), "Building Site" by Gavril Miklosy (centre), "On the Building Site of the Danube-Black Sea Canal" (centre, right), "Ship Builders" by Vladimir Seiran (bottom, left), "Constructors" by Sorin Chelutiu (bottom, right)



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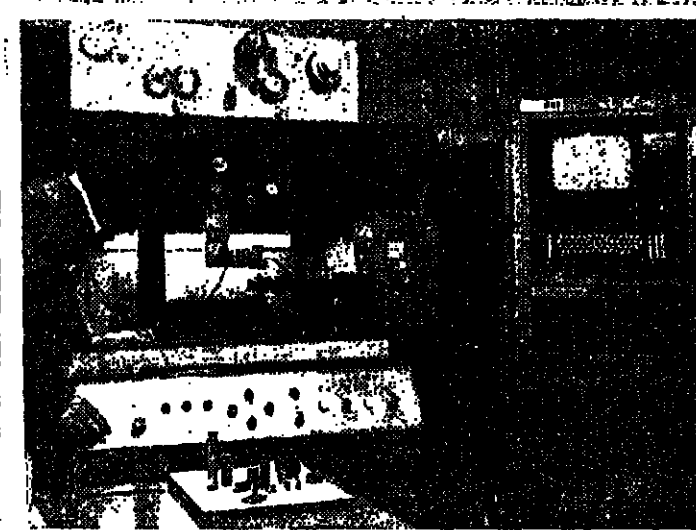
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ELEVENTH YEAR
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A CONTINUOUSLY ASCENDING COURSE COMMUNIQUE ON THE FULFILMENT OF THE 1987 PLAN

The Executive Political Committee of the CC of the RCP met on Wednesday, February 3, 1988, under the chairmanship of Nicolae Ceausescu, General Secretary of the Romanian Communist Party. It examined and approved the Communiqué on the fulfillment of the Single Na-

As regards the investment-construction activity, we should mention the fact that last year several projects of national importance were commissioned, such as the rail and road complex of Danubian bridges at Fetești — Cernavodă, the new shipping canal Ploiești-Alba —



ROBOTS IN THEIR MATURE YEARS

The intensive character of the development of Romanian industry during the ongoing stage requires a large-scale introduction of automation, robotization and cybernetics. The programmes existing in this field illustrate both the results obtained so far and the remarkable prospects for development in the near future. The reportage on page 3, highlights a series of preoccupations in the field of industrial robotics, the present stage and the guidelines of applied and fundamental research.



ional Plan of Romania's Socio-Economic Development in 1987, which was later released to the press.

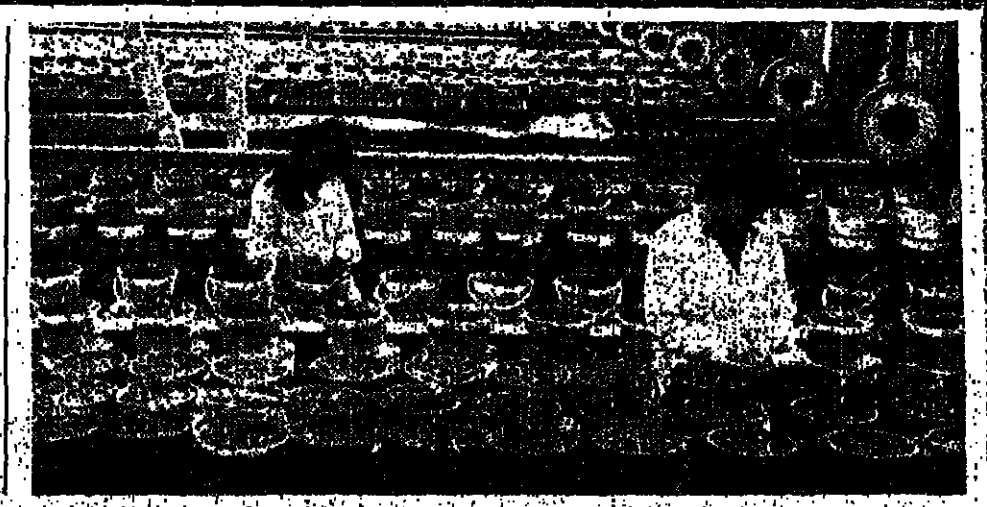
The Executive Political Committee appreciates that in 1987, new and important achievements were scored in the country's socioeconomic development. Production forces developed continuously and Romania's economic potential was strengthened. Industry registered new progress on the way to modernization, to its intensive development, to increasing product competitiveness in the international market. According to the communiqué, the value of the marketable industrial production was in 1987, 4.5 percent bigger than in 1986, while the net industrial production 5.3 percent bigger. The whole production increase was obtained through the increase by 4.6 percent of labour productivity.

In agriculture, although weather conditions were not favourable, good results were obtained. In this context, mention should be made of the fact that in 1987 the largest grain production in the country's history was obtained. The value of the overall agricultural output grew by 3.3 percent while the value of the net agricultural output by 3 percent as compared to the previous year.

The activity of scientific research, technological development and introduction of technical progress made a substantial contribution to ensuring the intensive economic growth, enhancing labour productivity and economic efficiency. In 1987, over 2,500 new and updated types of machines, apparatus and installations, and 1,000 materials and consumer goods were assembled in production and 1,775 new and improved technologies were introduced.

HOW DOES ONE LEARN TO PRACTICE AGRICULTURE

According to a ruler issued in September 1982 the aim of the Agronomic Institute in Bucharest was "to provide superior training in the field of agronomical sciences and to contribute to the settlement of problems concerning the country's agriculture". The aim is still the same today. But the present conditions of the Romanian agricultural higher education of the students are altogether different. On page 6 the Institute and some results scored by researchers working there are set forth.



**THE MYSTERIES
OF AN ANCIENT CITY**
(PAGE 14)

**MODERNITY
AND TRADITION**
(PAGE 7)

EXPRESSIONS OF THE PRESTIGE ENJOYED BY ROMANIA'S PRESIDENT

ITALY

A new book devoted to the personality of Romania's president, Nicolae Ceausescu, is put out in Italy, entitled "President Ceausescu's Socialism". The book is authored by Ugo Razzano. It presents Romania as a "Latin European socialist country," "steeped in the heat of the fight for spiritual life and for physical survival," the author writes, "this Latinally reformed today in the political, economic and social spheres of its first citizen and president — Nicolae Ceausescu".

The first two chapters of the book present the origins and development of the Romanian people, as well as Romania's participation in the anti-fascist war, and her important military and economic contribution to the victory of 1945 over Hitler's Germany.

The chapter "Romanian Socialism: With the People and for the People," as well as other chapters present the humanistic conception of President Nicolae Ceausescu about the major internal, political, economic and social issues. According to the conception of the Romanian president, the author writes, socialism rests precisely upon the indivisible link between every person's accomplishment and the general welfare of the collectivity, the political, economic and social freedom and the freedom of the whole nation.

Man's fundamental rights according to President Nicolae Ceausescu's political outlook — the book states — are the right to earn one's living by work, to directly participate in running various sectors of activity, to make the relevant decisions along with the others.

"The new conception about social and moral justice — recalling in Romania — gives pride of place to man as the decisive factor of all economic changes, of building a civilization resting upon equality".

The book produces numerous data and figures pointing to the steady improvement in an organizational and functional sense of the Romanian socialist state in the last two decades. Stress is also laid on the significance of the conception about the need to create a powerful national industry, as a requisite of economic progress, as well as for developing science and technology, education of all grades, all the way to Romania's transformation into an industrial-agrarian state with a powerful industry and modern agriculture.

A distinct chapter, entitled "Romania in 2000," emphasizes the direction to be taken in the promotion of the country's progress in the last decade of this century and millennium that resides in a more marked emphasis on the qualitative aspects of activity in all domains of economic and social life, the speeded up growth of labour productivity and general economic efficiency in all sectors, the application to production of the most advanced gains of modern science and technology. In this frame the author emphasizes the fact that, according

to President Nicolae Ceausescu, for the successful fulfilment of the targets established, the fundamental and decisive role of every country's own efforts, of the mobilization of its own resources, of its own possibilities, equally important being also the expansion and diversification of the foreign economic relations, the economic, technological and scientific collaboration with all states.

The chapter on Romania's foreign policy presents the major directions on which Romania's President Nicolae Ceausescu "have channelled their creative forces, their intense diplomatic effort, and high responsibility for mankind's destiny" — disarmament, nuclear arms, peace, security and cooperation in Europe and all over the world, the promotion of negotiations — the only realistic and durable modality of settling disputes, the affirmation of real democracy in the approach, debate and settlement of the issues, the establishment of a new world economic order, Romania, the author stresses, vigorously works for the defence of the primordial right of people, of nations: the right to life, to peace.

As for disarmament, nuclear arms, the author stresses that since over 20 years, starting from the realities of contemporary world, Romania's president has worked personally for the halting of the arms race, for the reduction of nuclear weapons down to the lowest level, for the curtailment of military budgets, giving a concrete example through the referendum of November 1986, in which the Romanian people expressed its accord with the five per cent reduction, in weapons, troops and military expenditures of the country, calling also other states and peoples to take its example.

Another chapter features the fundamental coordinates of Romania's international activity, President Nicolae Ceausescu's role in the elaboration and translation into life of the Romanian foreign policy steadily directed toward the noble goals of détente, collaboration and peace among peoples.

A distinct chapter covers President Nicolae Ceausescu's conception about the necessity of rejecting the old policy relying upon strength and interference in other peoples' affairs and of replacing it by the observance of the norms of law and international legality, by peaceful methods, dialogue and negotiations for the settlement of the conflicts and disputes in such a way that might emerge among states.

The largest chapter in the book presents the known position of Romania, of President Nicolae Ceausescu regarding the peaceful settlement of the Middle East conflict. President Nicolae Ceausescu's book shows — in the author of an original, realistic, scientific, wide-embracing conception about the ways and means of settling the Middle East conflict, a conception firmly and steadily laid at the foundation of all Romanian démarches and initiatives in this respect.

Emphasis is placed on the most important international role of Romania, of President Nicolae Ceausescu in pointing to the dangerous nature of the hotbed of tension in the Middle East, in the persevering urging of the international community and of all peoples to work for the imperative demand of giving up the strength and war, Romania's position is highlighted, regarding the necessity of settling the Arab-Israeli conflict by negotiations conducive to Israel's withdrawal from the Arab territories occupied, after the 1967 war, to the recognition of the right to existence of all states in the region and the materialization of the Palestinian people's legitimate rights, including the right to independent statehood.

Reviewed are also the constructive position and persevering initiatives taken along the years by Romania, by the Romanian head of state personally, on a bilateral and multilateral plane alike, and also within summit contacts, for the settlement of the Arab-Israeli conflict.

It is also stressed that Romania and her leader had a groundbreaking role in launching the idea of calling an international peace conference on the Middle East, conducive to the settlement of all issues in the region, the establishment of a global, just and durable peace. Likewise, the book notes that Romania, through its principled and constructive foreign policy, Romania has firmly declared the peaceful settlement of the conflict in Lebanon, based on strict observance of that

country's independence, sovereignty, territorial integrity and unity, and for the political, negotiated settlement of the conflict between Iran and Iraq, in the interests of the respective peoples, of stability and peace in the region and the world over.

Latest developments in the Middle East, and even on a wider plane — it is shown in conclusion — have demonstrated the profound realistic character and clear-sightedness of President Nicolae Ceausescu's assessments. He has repeatedly stressed that the disputed issues and conflicts cannot be settled by imposing the will of strength, but by negotiations.

JAPAN

The book Peace Initiatives of Romania, of President Nicolae Ceausescu was brought out by Kobunshu publishing house in Tokyo. The more than 300 pages of the volume gather extensive excerpts from the RCP and Romanian state leader's speeches and writings on the questions of international law and international relations, on finding the practical ways and means for an official settlement of the great problems confronting the contemporary world.

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The preface also underscores the special value of President Nicolae Ceausescu's concept according to which "real security can be achieved only by real nuclear disarmament". The active contribution to the assurance of world peace is one of the most important targets of Romania's foreign policy, of the international activity carried out by President Nicolae Ceausescu, the preface further shows. This target is based on the belief substantiated by the contemporary realities, that peace can be achieved only by the struggle of all peoples closely united, by the contribution of all states, including the small and medium-sized ones.

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At the end of the preface, the author expresses his belief that the volume put out in Japan will contribute to a better knowledge of President Nicolae Ceausescu's political, scientific and practical actions, firmly devoted to the noble goals of understanding and peace among peoples, to the peaceful settlement of all issues in the region, the establishment of a global, just and durable peace. Likewise, the book notes that Romania, through its principled and constructive foreign policy, Romania has firmly declared the peaceful settlement of the conflict in Lebanon, based on strict observance of that

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NOVELTY, QUALITY, COMPETITIVENESS

The offer of the Pilest Electric Motors Enterprise has increased with nine types of motors for 1985. Presented at several international fairs, the new products enjoyed favourable appreciations both from the traditional partners and from representatives of other firms, which were desirous to purchase them. As a matter of fact, deals have been concluded for more than half of the total output of the Pilest Electric Motors Enterprise with firms from abroad for the year 1985. In the future, the specialists of the plant will be engaged in activities aiming in view the enrichment of the product list, the assimilation of new types of motors designed by the research workshops on the customers' demand. Alongside the enrichment of the structure the Pilest Electric Motors Enterprise has assumed this year a daring programme for the modernization of the fabrication process.

CONSTRUCTORS' PRIORITIES

The general enterprise trust for industrial constructions of Brasov last year completed 73 large economic units. At present, the priority objectives of the trust, staffed by 1,000 constructors, technicians and engineers include as a priority the coal-fuelled electric and thermal power stations in Brasov municipality. The assembly of the first engine unit has been concluded and in the following days the installation is to undergo technological tests.

Also, vast modernization works are in an advanced stage of completion at the iron works of Vihla. The project includes the replacement of certain technologies so that the works may assimilate metallurgical products competitive on the world market.

During the first trimester of this year, the Brasov trust undertakes to finalize two large foundry sections, one at the mechanical enterprise at Gheorgheni, the other at the Balaia enterprise of Sibiu.

In various stages of completion are also other large industrial units. Mentionworthy is the fact that a vast programme of introducing new, highly efficient solutions and technical procedures has been worked out. Thus, manufacturing terms are to be shortened, the degree of industrializing constructions and the quality of mounting and installation works are to grow. Concurrently, new forms of improving all workers' professional training have been initiated.

At Cilest oilfield in Olteanu county, Balana area, the crude recovery degree has reached 43 per cent and is estimated to top 58 per cent. These figures are far ahead the world average.

A number of 27 old oil wells, which had ceased producing for several years, have been put into operation again in the Braila oilfield.

As a result, the output of the Braila oilfield, located in the east of the Romanian Plain has increased by some 141 tons of crude a day. The possibility of putting into operation oil wells for which have been regarded as depleted, is also being considered.



MODAROM

In 10 years, the population of Romania city doubled. And still, the population boom was outpacing the pace of housing construction. In the old-time "depopulated" today, a modern municipality — 38,000 inhabitants — was built. A shopping network meeting the needs of the inhabitants was created. A supermarket and the Modarom fashion house (in the nearby photo) have recently been added.

THE TOUR OF THE WORLD WITH THIN PIPES

At the Institute of Technological Engineering and Design for Rolling Mill Plants and Workshops (ICEPROLAM) in Bucharest, work is carried on for the elaboration of documentation for the new enterprise of cold-drawn pipes which is now built in Timisoara. The enterprise will produce small-diameter pipes. The annual production will be about 80 million m, enough to surround the earth two times at the equator. The metal consumption estimated for a year's output will not exceed 25,000 tons. All the technological processes and the equipment and units of the new enterprise will be designed in Romania.

In the interproduction laboratories of ICEPROLAM, an automated microcomputer control for the steel pipes has been designed and produced.

During 1983, ICEPROLAM elaborated 3,000 designs for the fabrication or modernization of 181 metallurgical projects.

In our photo — an image from the drilling pipes workshop at I.M.C.B., whose technology was designed by ICEPROLAM.

700 MW NUCLEAR GIANT

The first 700 Mw power generating unit is now being built into production at the Bucharest Heavy Machine Enterprise (IMGB). It is one of the first major objectives of the Romanian nuclear programme, destined for the nuclear power plant now being built at Cernavoda.

Certainly, the manufacture of such a complex installation is only possible in enterprises which boast not only modern equipment but also highly competent working collectives. It should be mentioned that a 330 Mw turbine was made at IMGB as early as 1973. Subsequently the range of turboengines was diversified, and now 160 types of power generating units are built here, among which electric turbines of 1.5, 3, 4, 5, 10, 30, 100 and 330 Mw — virtually the whole gamut

of powers necessary to thermoelectric power stations. The difficulties of building these installations will be better understood from a presentation of the 330 Mw turbine. Fifteen such turbines have been made at IMGB so far. Such a power plant now being built at Cernavoda. Certainly, the manufacture of such a complex installation is only possible in enterprises which boast not

ROBOTS IN THEIR MATURE YEARS

Nowhere in the world has anyone yet created completely self-contained robots. Their enticing presence is now a subject highly speculated on by science fiction literature and movies. However they have anticipated the advent of real industrial robots endowed with ascending levels of capability, able to substitute for the physical effort, the monotonous work of scores of people. To use them means to improve vi-

DAILY IMAGES

At the 87th Automation Enterprise in Bucharest displayed two flexible cells provided with robots, and the RIF 0.3 robots as part of applications of

blowers. Automatica offered one of the robots which have already been assimilated - RIF 0.3. But, naturally, redesigned for the new tasks, sparing of words,

engineer Dan Coemlin however admitted to the existence of a degree of uniqueness in every line and every equipment. It can be said that thanks to the intensive demands for modernization made by many enterprises, uniqueness has become part and parcel of the daily activity of the Automatica specialists.



continuous welding. The exhibits aroused the interest of specialists, of home and foreign partners. As an example of Automatica helped IMU Breda to mount a flexible line manufacturing drums for the MEQU firm in Leipzig. One year of full operation proved to the beneficiaries that the Romanian flexible line managed to meet all requirements.

On a January morning I had the opportunity to watch the tests undergone at Automatica by a new flexible line designed for the electrochemical industry: a new modular system mounting electrochemical plugs. Completed with other modules, the equipment can be used to mount other subassemblies, too. For the time being the new line mounts one plug in 80 seconds but I was told that it can perform the operation in less than three seconds. Made up of three cells, the robot fills a relatively small space, replacing a whole assembly line. During the tests several specialists and workers of the enterprise stood by the line. The last corrections were made to the operations. No one moved a finger. The program was finally set up. All it took was a push button. The robot's moves succeeded each other with perfect accuracy.

On another day I witnessed a discussion between engineer Dan Coemlin and a delegation from the Iliriacocan enterprise of Brasov, which selected a robot able to mount turbo-

The modernization of technologies and the boosting of labour productivity is especially possible today thanks to the application of industrial robots in the production process. On this page, engineer Dan Coemlin, Iliriacocan Enterprise, Brasov, and Electropower Timisoara.

sibly the accuracy, quality and productivity of work. The intensive character of the development of Romanian industry during the ongoing stage requires the wide-scale introduction of automation, robotization and cybernation. The programmes adopted to this end illustrate both the achievements scored so far and the extraordinary prospects for development in the near future.



MEETING THE FUTURE

I looked for detailed information concerning the qualification of technical staff working in this fascinating field at the Polytechnic Institute of Bucharest. The most daring researches are carried out at the Automation Faculty the first to have introduced a course on control systems for industrial robots, years ago. The research coordinator, Teodor Bovanin, Dong, told us about the recent achievements of the teaching staff in the field of industrial robotics. "In the beginning, I'd like to mention our preoccupations in the educational field. The didactic microbot RIF 0.3 with six degrees of freedom, equipped with a control system based on a microcomputer, manufac-

ed with parts integrally made in Romania is accessible from the point of view of cost and offers numerous facilities as its languages can be programmed at a high degree. This robot has another advantage - it needs a personal computer also made in the country - IIC 85. The microbot can be used for educational purposes in schools and high schools, technical education institutes, and also in training the technical staff in charge with robotics implementation in industry." Our interlocutor referred to an ample action of preparing the technical personnel in Bucharest enterprises, a training programme sponsored by the Automation Faculty. Ion Dumitrescu, the dean of the Automation Faculty, told us about the fundamental research in the field of industrial robotics. "We are preoccupied especially by achieving advanced control systems for industrial robots, introducing robots in flexible lines and cells by the achievement of control strategies for robots equipped with a certain degree of intelligence like the spatial-temporal orientation in a given work environment."

We should also add that the important results scored until now are a guarantee of efficient action to be taken in future. Robots are a reality of Romanian industry.

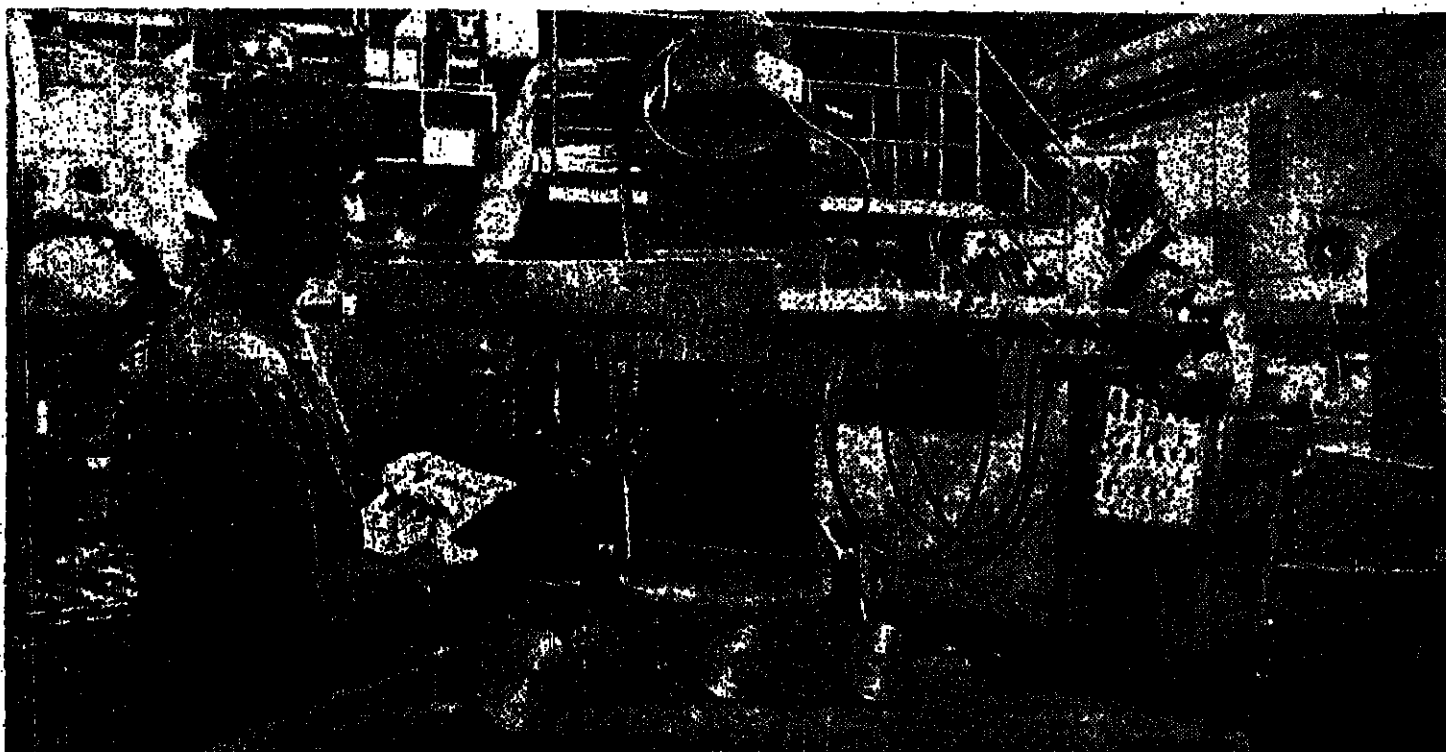
MARILENA TUTILA

QUALITATIVE CHANGES

An ample research programme has been worked out by ICET Bucharest. Many enterprises in Bucharest and elsewhere in Romania have already benefited by flexible lines and robots assimilated by this research institute. Two researchers, engineers Mihail Popov and Petronia Brezianu told me about their current concerns in the field of industrial robotics. The elaboration of cells and flexible lines at the beneficiaries' requests, the assurance of

an autonomous working regime of robots from four to eight hours, with the possibility of expanding it up to 18 hours, or the achievement of typhoid robots are all high on the agenda. The two specialists mentioned that the whole equipment making up the flexible lines, the robots and robots are manufactured in Romania. My interlocutors outlined the perspective of their present concerns. The flexible lines, the robots are only the first stage of introduction in the vast field of

industrial robotics. Engineer Petronia Brezianu told me about the construction of a flexible workshop scheduled to come into operation by the end of this five-year plan period, anticipating, probably, flexible factories. And what he said to me was no flimsy story but the vision of a researcher working in a high-tech field. The flexible line, workshop and factory presuppose qualitative changes in ensuring a highly trained labour force.



HOW DOES ONE LEARN TO PRACTICE AGRICULTURE?

Four lines of wheat and two of soy beans with harvest increases of 15-16 per cent have been obtained over the last years by teams of researchers of the Agronomic Institute in Bucharest. Besides university staff, these teams included also many students.

Upon the foundation of this Institute the Regulations issued by the Monitorul Oficial no 442

themes proposed for study is made by student scientific circles. The Agronomic Institute in Bucharest comprises 22 such circles enrolling more than 1,000 students. Researches are carried out for instance to the effect of reaching the optimum combination of doses of chemical fertilizers as well as the periods of application for harvesting the largest possible cereal crops,

centre. Modern buildings furnished with all possible equipment and facilities comprise 178 lecture rooms and laboratories. The same portmanteau includes six hostels housing 1,700 of the 1,850 students of the Institute. Also here there are canteens, a stadium, a student club, a multi-purpose hall. The library contains a stock of specialist books amounting to half a million copies. More than 70 per cent of the students benefit from state scholarships.

One of the "amenities" which can also define the condition of the Romanian agronomic student is the Didactic Experimental Station of Belciugatele: 3,000 ha of field, a mechanical station provided with all necessary farming equipment, an animal farm growing 800 cattle, 120 saddle and cart horses, 2,000 sheep, 3,000 chickens, 3,500 pigs. Therefore, Belciugatele is a real wide-scope professional laboratory.

GH. SERBAN



A SHEEP IN SIX COLOURS

The experts of the Popăuți Research and Production Station in Hosiopol county have developed, stabilized and multiplied a new Caracul-type sheep breed. The value of this breed consists in the beauty of the newborn lamb skins. Apart from the classic black and light grey, four other colour variants have been obtained at Popăuți: brown, dark grey, pink and white.

The Caracul of Hosiopol lamb skins provide therefore to be-

come a prestigious presence at the major fur auctions. They are distinguished by the strength of the chromogenic

pigments, the elasticity, tightness and uniformity of the curl, their velvety touch and gloss. With an initial number of 700,000 head, Romania is the second largest producer of Caracul skins in Europe after the USSR. In fact the earliest systematic concerns with acclimatizing and improving this breed were recorded in Romania, probably at the end of last century. In 1910 sheep and rams were brought again from Bukhara. Caracul rams were for the first time crossed with sheep from the local Turean breed at the Popăuți research station in the north of Moldavia. The last

Consequently, over the last 10 years the livestock of the station has grown from 3,000 to 13,000 head, which has also stepped up the multiplication rate. From both local livestock and that of animal farms existing in the area varieties of colour were selected and through an involved handling of genes carrying chromogenic pigments six types of colour of the Caracul of Popăuți were obtained: black, light grey, brown, dark grey, pink and white. Each colour has several hues: black, (tinted black, blue light grey, pearly light grey, mother-of-pearl light grey, silver



QUADRUPLT CALVES

At the Măgurele farm of the Roșiori de Vede SAE, the cow numbered 85184 calved quadruplets at the end of last year. They are all females and develop normally. The mother is of the Holstein Fries breed, a third-generation descendant of a cow born in Denmark and brought to Romania in 1976. The she-cow No. 85184 had been artificially inseminated by the bull No. 10449 from Semleș, Bucharest. Noteworthy is that of the Măgurele farm, cows are bred in pure breeds. At present the stable of the farm number 911 heads, of which 254 are adult cows and the rest are female cows for reproduction. The average milk production obtained last year was of 5,500 litres for each cow.



significant impact of rams from the USSR occurred in 1943.

Native to the droughty, hot Moldavian steppes with its poor vegetation, the Caracul breed did not seem to have found the most favourable climatic conditions at Popăuți. The weather is colder and more humid here. But Caracul found here the laboratory of the people - both researchers and the sheep breeders in the region. They accepted that the Caracul sheep, which few but beautiful lambs. This is due to the fact that most Caracul sheep are so-called "double-breasted" in Hosiopol county in the north of Moldavia.

Certainly it was an inspired idea to cross rams of the Caracul breed with sheep of the Turean breed, which resulted in the creation of a new variety. The latter displays the same beauty of the curl at its height, but is the more resistant to weather changes.

On the basis of these results, after 1968, the sheepbreeding research and production station embarked upon the systematic work of improving and selecting the Caracul sheep of the Popăuți variety.

Many breeding programmes have been used. A wide-scope programme has been used in the Popăuți research station.

One day after each lamb is born a certificate is issued carrying scores for colour, curls, the quality of fibre, the smoothness of fur and the size of the skin. Mentions are also made concerning the body conformation and shape. Only a certificate like these allows for a lamb to remain in the breeding flock. Now researchers are concerned with obtaining bigger lambs, diversifying colours for genetic recombination, deepening biochemistry in ewes, etc.

The influence of some of the Popăuți station covers five counties: Ial, Vaslui, Botoșani, Buzău and Suceava. It provides animal breeders of this area with some 200 rams tested yearly, and 25,000 doses of frozen semen.

According to estimations, 90 per cent of Romanian country's stock of 600,000 sheep are half-breeds of various degrees of Caracul of Popăuți. Starting last year, rams covered by these figures, first of all in counties of 200 heads, are state farms.

Specialists say that the Caracul of Popăuți is a breed of sheep with a high degree of adaptability to the conditions of the Romanian steppe.

GH. SERBAN

ELECTRONUM YOUR SAFEST BUSINESS PARTNER

Marketing Romanian electronic products and services as well as economic cooperation in the field of the electronic industry are carried out by the ELECTRONUM foreign trade enterprise.

ICE ELECTRONUM'S export programme includes the following lines of products:

— Telecommunication apparatuses and equipment, servicing included, starting from design up to training and maintenance. From this line of products mention should be made of: telephones, urban, interurban, international and institutional automated telephone exchanges. Exports of such products to Greece, the USSR, Czechoslovakia and the GDR have become a traditional practice.

— Measuring and control apparatuses, of which ampermetres, voltmeters, wattmeters, electric metres, flow-metres, steam-flow metres, logometres are delivered to Poland, Syria, Iraq, Pakistan, Sudan, the GDR and Czechoslovakia.

— Automation elements, equipment and installations for all the economic and social sectors.

We shall enumerate some subgroups of products: field and panel automation equipment, distribution and control electrical equipment, automated equipment and systems controlling technological processes in all economic branches, transmission and data processing equipment,

ment, teletransmission and data processing equipment, machine tools, control equipment, automated testing equipment.

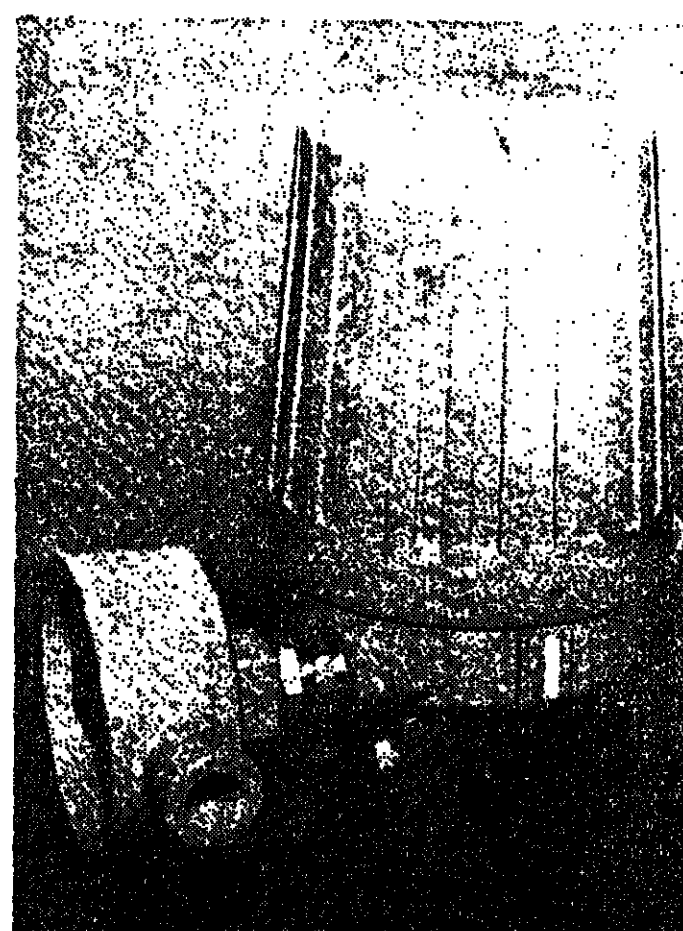
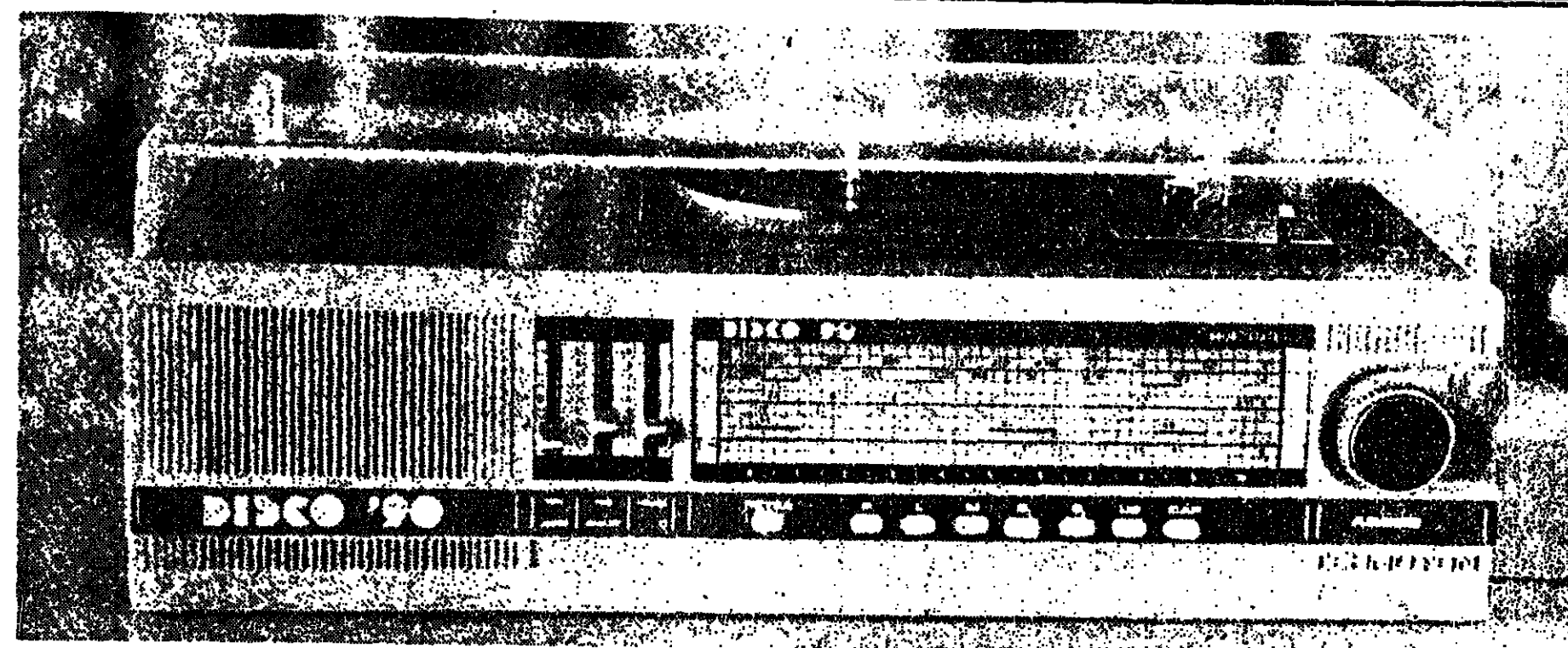
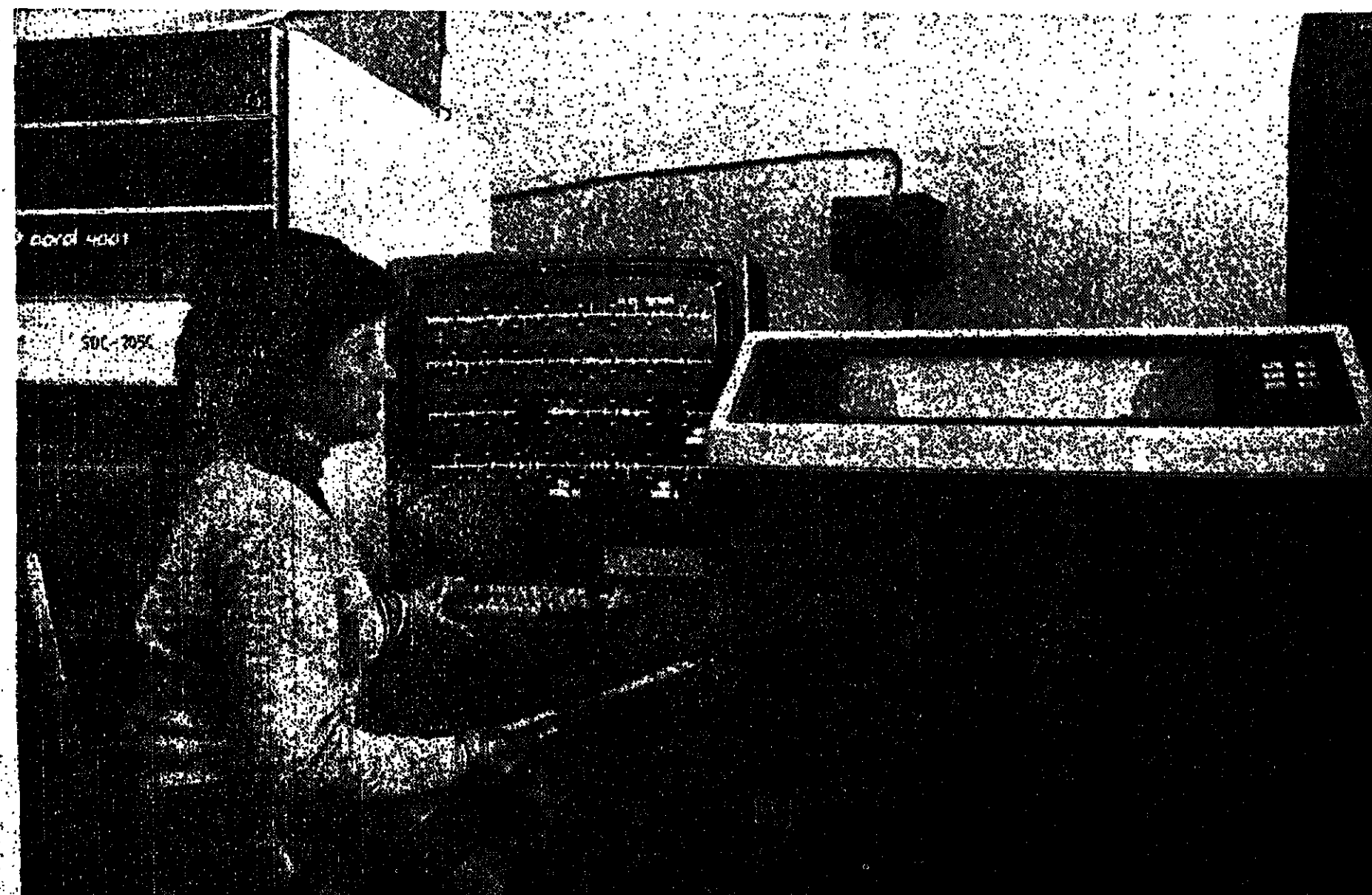
Also on offer are personal installations and equipment as well as turn-key deliveries. Increasing are the deliveries to countries such as the USSR, Egypt, the GDR, Czechoslovakia, Iran, Iraq, Bulgaria.

— Computer technology equipment such as: medium-capacity computers, minicomputers, microcomputers, personal computers, graphical systems, invoicing and bookkeeping machines, peripheral equipment. These products are exported to People's China, Czechoslovakia, the USSR, the GDR, Switzerland, Austria, West Germany, the USA.

The electronic components cover a wide range of diodes, transistors, integrated circuits, resistors, condensers, etc and are exported to Bulgaria, Czechoslovakia, the GDR, Poland, France, Italy, the United States etc.

Consumer goods such as radio receivers, radio cassette recorders and tv sets. These products are exported to countries such as West Germany, Britain, the Netherlands, Czechoslovakia, the GDR, the United States.

Also taking place through ICE ELECTRONUM are the export of licences and knowhow, the granting of technical assistance and software.



ICE ELECTRONUM imports a series of equipment, apparatuses, electronic components and various materials for the electronic industry and audio-video consumer goods.

An important partner in the export and import conducted by ICE ELECTRONUM is the Soviet Union.

ICE ELECTRONUM - Bucharest collaborates with the Soviet enterprises V/O ELECTRONORGTEHNICA, V/O STANKOIMPORT, V/O MASHPRIBORINTORG, V/O TECHMASHEXPORT, ENERGO MASHEXPORT, V/O TEHNOINTORG, V/O

Supplied to the USSR are adjustable drives for machine tools, automatic telephone exchanges, computer technology, while that country exports to Romania electronic components, technological equipment

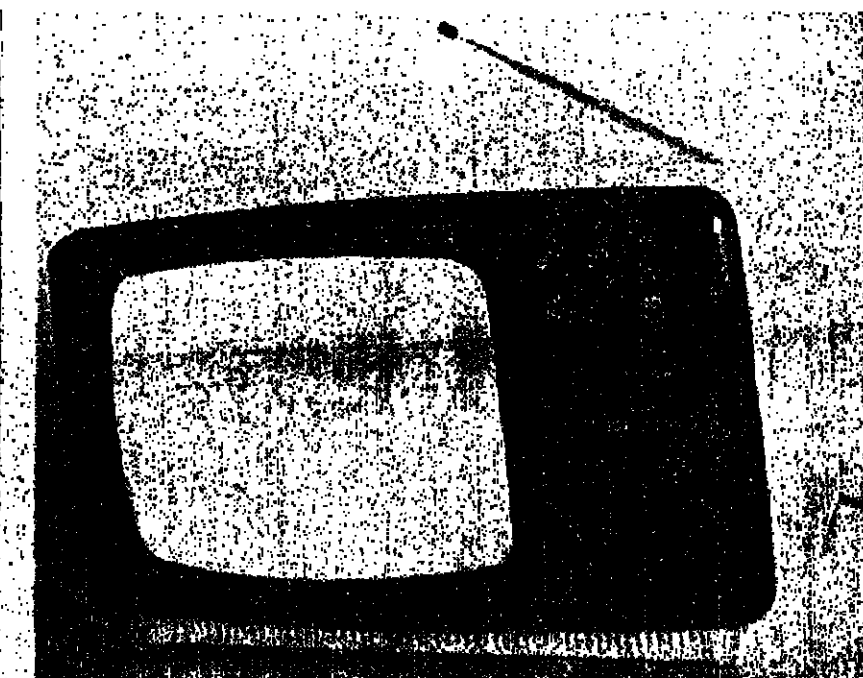
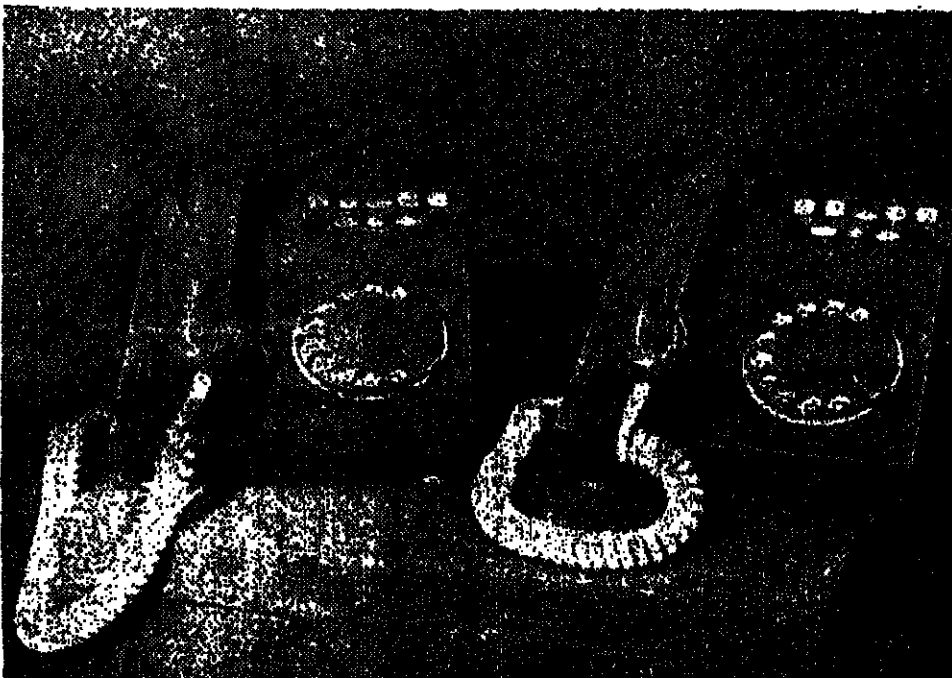
ment for the electronic industry, computer technology and audio-video consumer goods.

The collaboration with the Soviet foreign trade enterprises also accounts for the cooperation in production, that is Soviet electronic components are used in manufacturing electrical drives, computer technology equipment and automated telephone exchanges to be delivered to the USSR. At the same time very important is the ob-

servance of all delivery dates, especially as concerns the electronic components which are vital to the rhythmic realization of the equipment production plan.

According to annual mutual exchange protocol stipulations, the volume of the exchanges between ELECTRONUM and the Soviet foreign trade enterprises is set to grow every year.

For further information please contact our specialists.

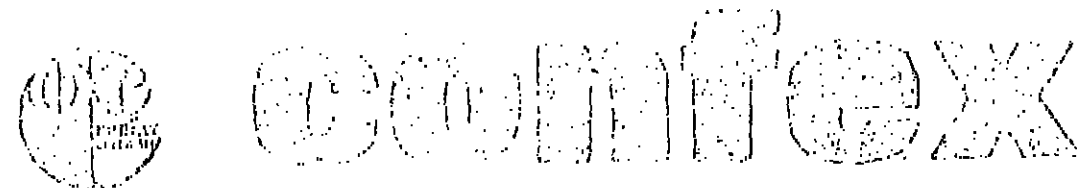


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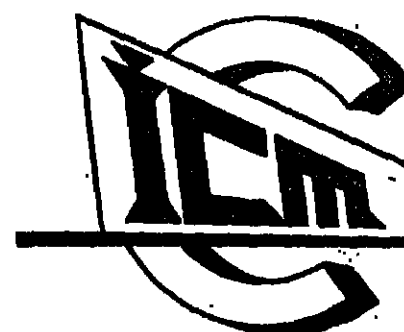
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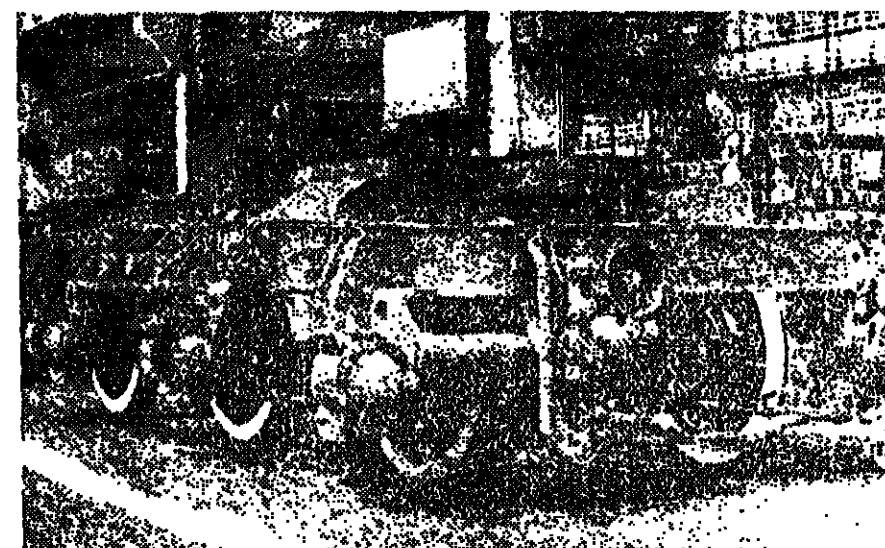
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Turkey. The exceptional professional training of the technicians, engineers and specialists accounts for the spectacular feats of our enterprise, namely, a highly diversified and supply production, products with high-quality parameters, highly competitive, on a par with the latest world demands. The exceptional equipment rivaling that of the most renowned firms in the field is another explanation for its success: hydraulic forges, heat treatment equipment, machine tools with programme control and

digital display, highly automated and robotized technologic flows under computerized control. Noteworthy is also the metrologic department with laboratories equipped with state-of-the-art apparatus. Finally, the enterprise is equipped with simulators and test stands with complex and fine apparatus, where the wares are exigently tested under extreme conditions. The collaboration of I.C.M. Caransebes with various special research institutes contributes to improving our performance.



FROM THE WIDE RANGE OF PRODUCTS MASSIVELY DELIVERED TO ITS NUMEROUS CUSTOMERS BY ICM CARANSEBES:

● BOGIES FOR DIESEL HYDRAULIC LOCOMOTIVES ● 1,250 HP DHL ● 2,400 HP DHL
● BOGIES FOR DIESEL ELECTRIC LOCOMOTIVES ● 1,100 HP DEL ● 1,250 HP DEL ● 1,500 HP DEL ● 2,100 HP DEL ● 2,640 HP DEL ● 3,000 HP DEL ● 4,000 HP DEL
● BOGIES FOR ELECTRIC LOCOMOTIVES ● 1,050 KW EL ● 3,400 KW

EL ● 4,000 KW EL ● 5,100 KW EL

● FRAMEWORK BOGIES OF 1,870 KW

● BOGIES FOR ELECTRIC ROAD TRAIN

● TRUCKS FOR TRAMWAY

● HYDRAULIC TURBINES ● 8.3 MW KVB ● 6 MW KVB

● HYDRAULIC MICRO-TURBINES FOR UNITARY POWERS ● EOS 500 ● EOS 700 ● EOS 900 ● EOS 1100 ● EOS 1500 ● FO 90/390 ● FO 90/570 ● FO 125/640 ● FO 190/720 ● FO 230/720

● HYDROMECHANICAL EQUIPMENT

● VARIOUS METALLURGICAL MACHINE TOOLS

● pushing machines ● two-high stands ● kick up manipulators ● mobile or retractable spring beams ● cylinder-shifting mechanism ● pre- and post-auging tables, etc.

● VARIOUS INDUSTRIAL METALLIC STRUCTURES

● METALLIC STRUCTURES FOR INDUSTRIAL CONSTRUCTION — manufactured by specializing sections ● beams and yokes ● rolling beams ● girders ● springs ● corners ● roof beams, etc.

● SPARE PARTS FOR ROLLING STOCK AND THE AFORE MENTIONED MACHINE TOOLS

REMEMBER:

● the multiple high-tech characteristics of the plant are unanimously appreciated world wide
● I.C.M. Caransebes guarantees that by choosing products bearing its trade mark you will possess goods of high quality and reliability, providing maximum safety in exploitation.
● The large technical and productive capacity of our enterprise allows us to negotiate with other similar firms with a view to concluding mutually advantageous cooperation agreements based on documentation provided by us or by the end user.



IN ORDER TO CONTACT US FOR ADDITIONAL INFORMATION AND FOR THE CONCLUSION OF FIRM ORDERS YOU CAN APPLY TO

THE MACHINE-BUILDING ENTERPRISE [ICM] CARANSEBES

ROMANIA • CARANSEBES • CARAS-SEVERIN COUNTY • 68 NATIONAL ROAD • PHONE 965-12580, 12581 • TELEX 74619

THE POWER EQUIPMENT INDUSTRIAL CENTRAL — CIUE

ROMANIA • BUCHAREST • 104 BERCENI ROAD • PHONE 835940, 841020/256 • TELEX 11802, 10245